WEST Search History

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DATE: Thursday, October 21, 2004

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	DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L8	l6 and l7	11
☐	L7	avian myeloblastosis virus adj3 reverse transcriptase or amv adj3 reverse transcriptase	907
☐	L6	(435/194)!	505
	DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L5	L3 and subunits	54
☐	L4	L3 and heterodimer	11
☐	L3	l1 and L2	98
☐	L2	(435/194)!	1803
☐	L1	avian myeloblastosis virus adj3 reverse transcriptase or amv adj3 reverse transcriptase	1858

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20040043391 A1

L8: Entry 1 of 11 File: PGPB Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040043391
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040043391 A1

TITLE: Leptospira vaccine antigens for the prevention of Leptospirosis

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Utt, Eric A.	Groton	CT	US	
Willy, Michael Stephen	North Stonington	CT	US	
Dearwester, Don A.	Westerly	RI	US	

US-CL-CURRENT: 435/6; 435/194, 435/320.1, 435/348, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 20030217392 A1

L8: Entry 2 of 11 File: PGPB Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030217392
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030217392 A1

TITLE: Protein kinase stress-related proteins and methods of use in plants

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silva, Oswaldo da Costa e	Coryes	NC	US	
Ishitani, Manabu	Cary	NC	US	
Henkes, Stefan	Potsdam	NC	DE	
Thielen, Nocha van	Chapel Hill	NC	US	
Chen, Ruoying	Apex		US	

US-CL-CURRENT: 800/289; 435/194, 435/320.1, 435/419, 435/69.1, 800/286

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 20030138803 A1

L8: Entry 3 of 11 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138803
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030138803 A1

TITLE: Identification and use of molecules implicated in pain

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brooksbank, Robert Alan	Cambridge	MI	GB	
Dixon, Alistair Kerr	Cambridge		GB	
Lee, Kevin	Cambridge		GB	
Pinnock, Robert Denham	Ann Arbor		US	

US-CL-CURRENT: 435/6; 435/194, 435/7.2, 800/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 4. Document ID: US 20030134301 A1

L8: Entry 4 of 11 File: PGPB Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134301
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134301 A1

TITLE: Identification and use of molecules implicated in pain

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brooksbank, Robert Alan	Cambridge	MI	GB	
Dixon, Alistair Kerr	Cambridge		GB	
Lee, Kevin	Cambridge		GB	
Pinnock, Robert Denham	Ann Arbor		US	

US-CL-CURRENT: 435/6; 435/194, 435/7.1, 435/7.21, 800/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5. Document ID: US 20030082776 A1

L8: Entry 5 of 11 File: PGPB May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082776
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030082776 A1

TITLE: Novel genes encoding protein kinase/protein phosphatase

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ota, Toshio	Tokyo		JP	
Isogai, Takao	Ibaraki		JP	
Nishikawa, Tetsuo	Tokyo		JP	
Hayashi, Koji	Osaka		JP	
Otsuka, Kaoru	Saitama		JP	
Yamamoto, Jun-Ichi	Chiba		JP	
Ishii, Shizuko	Chiba		JP	
Sugiyama, Tomoyasu	Tokyo		JP	
Wakamatsu, Ai	Chiba		JP	
Nagai, Keiichi	Tokyo		JP	
Otsuki, Tetsuji	Chiba		JP	
Funahashi, Shin-Ichi	Ibaraki		JP	
Senoo, Chiaki	Shizuoka		JP	
Nezu, Jun-Ichi	Ibaraki		JP	

US-CL-CURRENT: 435/194; 435/196, 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 6. Document ID: US 20030054527 A1

L8: Entry 6 of 11 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054527
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054527 A1

TITLE: Novel megakaryocytic protein tyrosine kinases

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ullrich, Axel	Portola Valley	CA	US	
Gishizky, Mikhail	Palo Alto	CA	US	

Sures, Irmingard Munich DE

US-CL-CURRENT: 435/194; 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 7. Document ID: US 20030041345 A1

L8: Entry 7 of 11 File: PGPB Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030041345
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030041345 A1

TITLE: Receptor-like protein kinases from nicotiana tabacum

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schmulling, Thomas	Berlin		DE	
Schafer, Silke	Dusseldorf		DE	

US-CL-CURRENT: 800/278; 435/194, 435/320.1, 435/419, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 8. Document ID: US 20030017480 A1

L8: Entry 8 of 11 File: PGPB Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017480
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030017480 A1

TITLE: Novel genes encoding protein kinase/protein phosphatase

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ota, Toshio	Tokyo		JP	
Isogai, Takao	Ibaraki		JP	
Nishikawa, Tetsuo	Tokyo		JP	
Hayashi, Koji	Osaka		JP	
Otsuka, Kaoru	Saitama		JP	
Yamamoto, Jun-Ichi	Chiba		JP	
Ishii, Shizuko	Chiba		JP	
Sugiyama, Tomoyasu	Tokyo		JP	

Wakamatsu, Ai	Chiba	JP
Nagai, Keiichi	Tokyo	JP
Otsuki, Tetsuji	Chiba	JP
Funahashi, Shin-Ichi	Ibaraki	JP
Senoo, Chiaki	Shizuoka	JP
Nezu, Jun-Ichi	Ibaraki	JP

US-CL-CURRENT: 435/6; 435/194, 435/196, 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 9. Document ID: US 20020192790 A1

L8: Entry 9 of 11 File: PGPB Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020192790
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020192790 A1

TITLE: Novel megakaryocytic protein tyrosine kinases

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ullrich, Axel	Portola Valley	CA	US	
Gishizky, Mikhail	Palo Alto	CA	US	
Sures, Irmingard	Munich		DE	

US-CL-CURRENT: 435/194; 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 10. Document ID: US 20020146798 A1

L8: Entry 10 of 11 File: PGPB Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146798
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020146798 A1

TITLE: Human MEKK proteins,corresponding nucleic acid molecules, and uses therefor

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Johnson, Gary L.	Boulder	CO	US	

US-CL-CURRENT: 435/194; 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 11. Document ID: US 20020012969 A1

L8: Entry 11 of 11 File: PGPB Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012969
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020012969 A1

TITLE: METHOD OF QUANTIFYING TUMOUR CELLS IN A BODY FLUID AND A SUITABLE TEST KIT

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
DAHM, MICHAEL W.	MUNCHEN		DE	

US-CL-CURRENT: 435/91.1; 435/194, 435/91.2, 536/24.3, 536/24.33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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☐ 1. Document ID: US 6767724 B2

Using default format because multiple data bases are involved.

L5: Entry 1 of 54 File: USPT Jul 27, 2004

US-PAT-NO: 6767724
DOCUMENT-IDENTIFIER: US 6767724 B2

TITLE: Compositions for reverse transcriptase-polymerase chain reaction (RT-PCR)

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Jun E.	North Potomac	MD		
Rashtchian; Ayoub	Gaithersburg	MD		

US-CL-CURRENT: 435/91.2; 435/180, 435/6, 435/7.1, 435/91.1, 536/22.1, 536/23.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 6767719 B1

L5: Entry 2 of 54 File: USPT Jul 27, 2004

US-PAT-NO: 6767719
DOCUMENT-IDENTIFIER: US 6767719 B1

TITLE: Mouse telomerase reverse transcriptase

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morin; Gregg B.	Palo Alto	CA		
Allsopp; Richard	Mountain View	CA		
DePinho; Ronald A.	Pelham Manor	NY		
Greenberg; Roger A.	Bronx	NY		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455, 530/350, 536/23.1, 536/23.5

ABSTRACT:

This invention provides for murine telomerase reverse transcriptase (mTERT) enzyme proteins and nucleic acids, including methods for isolating and expressing these nucleic acids and proteins, which have application to the control of cell proliferation and aging, including the control of age-related diseases, such as cancer.

21 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 3. Document ID: US 6764839 B2

L5: Entry 3 of 54 File: USPT Jul 20, 2004

US-PAT-NO: 6764839
DOCUMENT-IDENTIFIER: US 6764839 B2

TITLE: Methods for preventing inhibition of nucleic acid synthesis by pyrophosphate

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blakesley; Robert W.	Frederick	MD		

US-CL-CURRENT: 435/91.1; 435/183, 435/6, 435/91.2

ABSTRACT:

Methods for preventing inhibition of nucleic acid synthesis by pyrophosphate are disclosed. More specifically, the present invention concerns inhibiting or preventing pyrophosphorolysis in sequencing and amplification of nucleic acid molecules. According to the present invention, an enzyme which is a pentosyltransferase, a phosphotransferase with an alcohol group as acceptor, a nucleotidyltransferase, or a carboxy-lyase is added to the reaction which serves to remove pyrophosphate from the reaction mixture.

34 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 4. Document ID: US 6730479 B2

L5: Entry 4 of 54 File: USPT May 4, 2004

US-PAT-NO: 6730479
DOCUMENT-IDENTIFIER: US 6730479 B2

TITLE: Detection of nucleic acid hybrids

DATE-ISSUED: May 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John William	Verona	WI		
Lewis; Martin K.	Madison	WI		
Leippe; Donna	Madison	WI		
Mandrekar; Michelle	Oregon	WI		
Kephart; Daniel	Cottage Grove	WI		
Rhodes; Richard Byron	Madison	WI		
Andrews; Christine Ann	Cottage Grove	WI		
Hartnett; James Robert	Madison	WI		
Gu; Trent	Madison	WI		
Olson; Ryan J.	Madison	WI		
Wood; Keith V.	Madison	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/174, 435/183, 435/199, 435/252.8, 435/320.1, 435/8, 435/91.2, 530/350, 536/23.7

ABSTRACT:

Processes are disclosed using the depolymerization of a nucleic acid hybrid to qualitatively and quantitatively analyze for the presence of a predetermined nucleic acid. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, speciation, determination of viral load, genotyping, medical marker diagnostics, and the like.

8 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 5. Document ID: US 6653078 B2

L5: Entry 5 of 54 File: USPT Nov 25, 2003

US-PAT-NO: 6653078
DOCUMENT-IDENTIFIER: US 6653078 B2

TITLE: Multiplex method for nucleic acid detection

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lewis; Martin K.	Madison	WI		
Kephart; Daniel	Cottage Grove	WI		
Rhodes; Richard Byron	Madison	WI		
Shultz; John William	Verona	WI		
Leippe; Donna	Madison	WI		
Mandrekar; Michelle	Oregon	WI		
Andrews; Christine Ann	Cottage Grove	WI		
Hartnett; James Robert	Madison	WI		
Gu; Trent	Madison	WI		
Wood; Keith V.	Madison	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/214, 435/69.1, 536/22.1, 536/23.1, 536/23.5, 536/24.3, 536/25.4

ABSTRACT:

Processes are disclosed using the depolymerization of a nucleic acid hybrid to qualitatively and quantitatively analyze for the presence of predetermined nucleic acid target sequences using a multiplex assay format. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, speciation, genotyping, medical marker diagnostics, and the like.

6 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 6. Document ID: US 6630333 B1

L5: Entry 6 of 54 File: USPT Oct 7, 2003

US-PAT-NO: 6630333
DOCUMENT-IDENTIFIER: US 6630333 B1

TITLE: Substantially pure reverse transriptases and methods of production thereof

DATE-ISSUED: October 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hughes, Jr.; A. John	Germantown	MD		

US-CL-CURRENT: 435/194

ABSTRACT:

The present invention provides substantially pure reverse transcriptases, which are

preferably substantially free from contamination with nucleic acids. The invention also provides methods for the production of these enzymes, and kits comprising these enzymes which may be used in synthesizing, amplifying or sequencing nucleic acid molecules including through the use of the polymerase chain reaction, particularly RT-PCR.

18 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 7. Document ID: US 6624154 B1

L5: Entry 7 of 54 File: USPT Sep 23, 2003

US-PAT-NO: 6624154
DOCUMENT-IDENTIFIER: US 6624154 B1
**** See image for Certificate of Correction ****

TITLE: Compositions and methods for treatment of hyperproliferative diseases

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benoit; Gerard	Monrsouir			FR
Gronemeyer; Hinrich	Oberkirch			DE
Lanotte; Michel	Paris			FR
Gottardis; Marco	Princeton	NJ		

US-CL-CURRENT: 514/168; 424/85.1, 514/355, 514/440, 514/463, 514/569

ABSTRACT:

The invention relates to compositions comprising a retinoid X receptor agonist and an agent capable of activating protein kinase A. The invention also relates to methods of treating hyperproliferative diseases by administering a retinoid X receptor agonist and an agent capable of activating protein kinase A.

39 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 8. Document ID: US 6613514 B2

L5: Entry 8 of 54 File: USPT Sep 2, 2003

US-PAT-NO: 6613514

DOCUMENT-IDENTIFIER: US 6613514 B2

TITLE: Methods and compositions for polypeptide engineering

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patten; Phillip A.	Mountain View	CA		
Stemmer; Willem P. C.	Los Gatos	CA		

US-CL-CURRENT: 435/6; 435/69.1, 435/91.2, 530/300, 530/350, 536/23.1, 536/24.3

ABSTRACT:

Methods are provided for the evolution of proteins of industrial and pharmaceutical interest, including methods for effecting recombination and selection. Compositions produced by these methods are also disclosed.

81 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 9. Document ID: US 6610522 B1

L5: Entry 9 of 54 File: USPT Aug 26, 2003

US-PAT-NO: 6610522
DOCUMENT-IDENTIFIER: US 6610522 B1

TITLE: Cloned genes encoding reverse transcriptase lacking RNase H activity

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kotewicz; Michael Leslie	Columbia	MD		
Gerard; Gary Floyd	Frederick	MD		

US-CL-CURRENT: 435/194; 435/252.3, 435/252.33, 435/320.1, 435/471, 435/69.1, 435/91.1, 435/91.2, 536/23.2

ABSTRACT:

The invention relates to a gene which encodes reverse transcriptase having DNA polymerase activity and substantially no RNase H activity. The invention also relates to vectors containing the gene and hosts transformed with the vectors of the invention. The invention also relates to a method of producing reverse transcriptase having DNA polymerase activity and substantially no RNase H activity by expressing the reverse transcriptase genes of the present invention in a host.

The invention also relates to a method of producing cDNA from mRNA using the reverse transcriptase of the invention. The invention also relates to a kit for the preparation of cDNA from mRNA comprising the reverse transcriptase of the invention.

98 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 10. Document ID: US 6593120 B1

L5: Entry 10 of 54 File: USPT Jul 15, 2003

US-PAT-NO: 6593120
DOCUMENT-IDENTIFIER: US 6593120 B1
**** See image for Certificate of Correction ****

TITLE: Recombinant DNA encoding a reverse transcriptase derived from moloney murine leukemia virus

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Riggs; Michael G.	San Diego	CA		
Sorensen; Matthew	Irvine	CA		

US-CL-CURRENT: 435/194; 435/252.3, 435/252.33, 435/320.1, 435/325, 435/69.1, 536/23.1, 536/23.2

ABSTRACT:

A recombinant plasmid for expression of Moloney Murine Leukemia Virus (MMLV)-derived reverse transcriptase in E. coli cells deficient in the expression of RNAse activity, a method for purification of the recombinant enzyme, and a purified recombinant reverse transcriptase for suitable use in cDNA and nucleic acid amplification procedures are disclosed.

10 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 11. Document ID: US 6589768 B1

L5: Entry 11 of 54 File: USPT Jul 8, 2003

US-PAT-NO: 6589768

DOCUMENT-IDENTIFIER: US 6589768 B1
** See image for Certificate of Correction **

TITLE: Cloned genes encoding reverse transcriptase lacking RNase H activity

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kotewicz; Michael Leslie	Columbia	MD		
Gerard; Gary Floyd	Frederick	MD		

US-CL-CURRENT: 435/194; 435/252.3, 435/320.1, 435/471, 435/91.1, 435/91.2

ABSTRACT:

The invention relates to a gene which encodes reverse transcriptase having DNA polymerase activity and substantially no RNase H activity. The invention also relates to vectors containing the gene and hosts transformed with the vectors of the invention. The invention also relates to a method of producing reverse transcriptase having DNA polymerase activity and substantially no RNase H activity by expressing the reverse transcriptase genes of the present invention in a host. The invention also relates to a method of producing cDNA from mRNA using the reverse transcriptase of the invention. The invention also relates to a kit for the preparation of cDNA from mRNA comprising the reverse transcriptase of the invention.

196 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 12. Document ID: US 6589737 B1

L5: Entry 12 of 54 File: USPT Jul 8, 2003

US-PAT-NO: 6589737
DOCUMENT-IDENTIFIER: US 6589737 B1

TITLE: Compositions and methods for labeling of nucleic acid molecules

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gruber; Christian E.	Frederick	MD		
Shih; Po-Jen	Columbia	MD		

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 536/25.3

ABSTRACT:

The present invention is generally related to compositions, kits and methods for labeling nucleic acid molecules using reverse transcriptases, preferably multi-subunit reverse transcriptases such as ASLV reverse transcriptases. Specifically, the invention relates to methods, kits and compositions for fluorescently labeling nucleic acid molecules during nucleic acid synthesis. The labeled nucleic acid molecules produced in accordance with the invention are particularly suited as labeled probes for nucleic acid detection and diagnostics.

63 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 13. Document ID: US 6586182 B1

L5: Entry 13 of 54 File: USPT Jul 1, 2003

US-PAT-NO: 6586182
DOCUMENT-IDENTIFIER: US 6586182 B1

TITLE: Methods and compositions for polypeptide engineering

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patten; Phillip A.	Mountain View	CA		
Stemmer; Willem P. C.	Los Gatos	CA		

US-CL-CURRENT: 435/6; 435/194, 435/196, 435/471, 435/472, 435/69.1, 435/7.1, 435/91.2, 530/300, 530/350, 536/23.1

ABSTRACT:

Methods are provided for the evolution of proteins of industrial and pharmaceutical interest, including methods for effecting recombination and selection. Compositions produced by these methods are also disclosed.

27 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 14. Document ID: US 6582904 B2

L5: Entry 14 of 54 File: USPT Jun 24, 2003

US-PAT-NO: 6582904
DOCUMENT-IDENTIFIER: US 6582904 B2

**** See image for Certificate of Correction ****

TITLE: Method of quantifying tumour cells in a body fluid and a suitable test kit

DATE-ISSUED: June 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dahm; Michael W.	D-81677 Munich			DE

US-CL-CURRENT: 435/6; 435/194, 435/91.2, 536/23.1, 536/24.3, 536/24.33

ABSTRACT:

A method for the quantification of tumor cells in a body fluid is disclosed and entails first carrying out a reaction with the sample to be investigated, in which the RNA component of telomerase is specifically amplified, and then the amount of amplified nucleic acid is determined quantitatively, as are test kits suitable therefor.

33 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☐ 15. Document ID: US 6541202 B1

L5: Entry 15 of 54 File: USPT Apr 1, 2003

US-PAT-NO: 6541202
DOCUMENT-IDENTIFIER: US 6541202 B1

TITLE: Telomerase reverse transcriptase (TERT) genes from Candida albicans

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Long; David M.	Livingston	MT		
Metz; Anneke M.	Bozeman	MT		
Love; Ruschelle A.	Bozeman	MT		

US-CL-CURRENT: 435/6; 435/194, 435/252.3, 435/254.11, 435/320.1, 435/325, 435/419, 536/23.1, 536/23.2, 536/23.74

ABSTRACT:

The present invention pertains, in general, to the identification, isolation and use of Telomerase Reverse Transcriptase (TERT) genes and the proteins encoded by such genes. In particular, the present invention pertains to the identification, isolation and use of TERT genes and TERT proteins from several genetically diverse

and economically important organisms, including two human pathogens, Candida albicans and Plasmodium falciparum and an agronomic crop species, Oryza sativa.

15 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☐ 16. Document ID: US 6518019 B2

L5: Entry 16 of 54 File: USPT Feb 11, 2003

US-PAT-NO: 6518019
DOCUMENT-IDENTIFIER: US 6518019 B2

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerard; Gary F.	Frederick	MD		
Smith; Michael D.	Rockville	MD		
Chatterjee; Deb K.	North Potomac	MD		

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2

ABSTRACT:

The present invention is generally related to compositions and methods for the reverse transcription of nucleic acid molecules, especially messenger RNA molecules. Specifically, the invention relates to compositions comprising mixtures of polypeptides having reverse transcriptase (RT) activity, and to methods of producing, amplifying or sequencing nucleic acid molecules (particularly cDNA molecules) using these compositions or polypeptides, particularly at temperatures about about 55.degree. C. The invention also relates to nucleic acid molecules produced by these methods, to vectors and host cells comprising these nucleic acid molecules, and to the use of such nucleic acid molecules to produce desired polypeptides. The invention also relates to methods for producing Rous Sarcoma Virus (RSV) and Avian Myeloblastosis Virus (AMV) RTs or other Avian Sarcoma-Leukosis Virus (ASLV) RTs (.alpha. and/or .beta. subunits thereof), to isolated nucleic acid molecules encoding such RSV RT, AMV RT or other ASLV RT subunits, to vectors and host cells comprising these isolated nucleic acid molecules and to RSV RT, AMV RT and other ASLV RT subunits produced by these methods. The invention further relates to nucleic acid molecules encoding recombinant heterodimeric RT holoenzymes, particularly heterodimeric RSV RTs, AMV RTs or other ASLV RTs (which may be .alpha..beta. RTs, .beta..beta. RTs, or .alpha. RTs), vectors (particularly baculovirus vectors) and host cells (particularly insect and yeast cells) comprising these nucleic acid molecules, methods for producing these heterodimeric RTs and heterodimeric RTs produced by these methods. The invention also relates to kits comprising the compositions, polypeptides, or RSV RTs, AMV RTs or other ASLV RTs of the invention.

116 Claims, 60 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

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☐ 17. Document ID: US 6495350 B1

L5: Entry 17 of 54 File: USPT Dec 17, 2002

US-PAT-NO: 6495350
DOCUMENT-IDENTIFIER: US 6495350 B1

TITLE: Compositions comprising a M-MLV reverse transcriptase and a DNA polymerase and use thereof

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Jun E.	North Potomac	MD		
Rashtchian; Ayoub	Gaithersburg	MD		

US-CL-CURRENT: 435/91.2; 435/6, 435/7.1, 435/91.1, 435/91.51, 536/22.1, 536/23.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33

ABSTRACT:

The present invention is directed to compositions and methods useful for the amplification of nucleic acid molecules by reverse transcriptase-polymerase chain reaction (RT-PCR). Specifically, the invention provides compositions and methods for the amplification of nucleic acid molecules in a simplified one- or two-step RT-PCR procedure using combinations of reverse transcriptase and thermostable DNA polymerase enzymes in conjunction with sulfur-containing molecules or acetate-containing molecules (or combinations of such sulfur-containing molecules and acetate-containing molecules), and optionally bovine serum albumin. The invention thus facilitates the rapid and efficient amplification of nucleic acid molecules and the detection and quantitation of RNA molecules. The invention also is useful in the rapid production and amplification of cDNAs which may be used for a variety of industrial, medical and forensic purposes.

18 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

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☐ 18. Document ID: US 6391551 B1

L5: Entry 18 of 54 File: USPT May 21, 2002

US-PAT-NO: 6391551
DOCUMENT-IDENTIFIER: US 6391551 B1

TITLE: Detection of nucleic acid hybrids

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John William	Verona	WI		
Lewis; Martin K.	Madison	WI		
Leippe; Donna	Madison	WI		
Mandrekar; Michelle	Oregon	WI		
Kephart; Daniel	Cottage Grove	WI		
Rhodes; Richard Byron	Madison	WI		
Andrews; Christine Ann	Cottage Grove	WI		
Hartnett; James Robert	Madison	WI		
Gu; Trent	Madison	WI		
Olson; Ryan J.	Madison	WI		
Wood; Keith V.	Madison	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 536/24.31, 536/24.32

ABSTRACT:

Processes are disclosed using the depolymerization of a nucleic acid hybrid to qualitatively and quantitatively analyze for the presence of a predetermined endogenous nucleic acid. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, speciation, determination of viral load, genotyping, medical marker diagnostics, and the like.

122 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

☐ 19. Document ID: US 6379898 B2

L5: Entry 19 of 54 File: USPT Apr 30, 2002

US-PAT-NO: 6379898
DOCUMENT-IDENTIFIER: US 6379898 B2

TITLE: Nucleic acid detection

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John W.	Verona	WI	53593	
Nelson; Michelle A.	Fitchburg	WI	53713	
Leippe; Donna M.	Madison	WI	53705	
Lewis; Martin K.	Madison	WI	53716	
Nelson; Lisa S.	DeForest	WI	53532	

US-CL-CURRENT: 435/6; 435/7.1

ABSTRACT:

This invention discloses methods, compositions and kits for the detection of extremely low levels of nucleic acid, cells and cellular material in biological samples. The nucleic acid detection systems utilize either the pyrophosphorolysis reaction catalyzed by various polymerases or nuclease digestion coupled with pyrophosphorylation catalyzed by phosphoribosylpyrophosphate synthetase to produce either deoxyribonucleoside triphosphates or ribonucleoside triphosphates. dNTPs are transformed to ATP by the action of nucleoside diphosphate kinase. The ATP produced by these reactions may be detected by luciferase or NADH based detection systems. If more sensitive detection is required, schemes for the amplification of NTPs and dNTPS are provided. A detection system for cells or cellular material in a sample is provided wherein AMP and a high energy phosphate donor added to a sample are converted to ATP by the action of endogenous enzymes, followed by detection of the ATP.

8 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 20. Document ID: US 6335162 B1

L5: Entry 20 of 54 File: USPT Jan 1, 2002

US-PAT-NO: 6335162
DOCUMENT-IDENTIFIER: US 6335162 B1

TITLE: Nucleic acid detection

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John W.	Verona	WI		
Nelson; Michelle A.	Fitchburg	WI		
Leippe; Donna M.	Madison	WI		
Lewis; Martin K.	Madison	WI		
Nelson; Lisa S.	DeForest	WI		

US-CL-CURRENT: 435/6; 435/91.1

ABSTRACT:

This invention discloses methods, compositions and kits for the detection of extremely low levels of nucleic acid, cells and cellular material in biological samples. The nucleic acid detection systems utilize either the pyrophosphorolysis reaction catalyzed by various polymerases or nuclease digestion coupled with pyrophosphorylation catalyzed by phosphoribosylpyrophosphate synthetase to produce either deoxyribonucleoside triphosphates or ribonucleoside triphosphates. dNTPs are transformed to ATP by the action of nucleoside diphosphate kinase. The ATP produced by these reactions may be detected by luciferase or NADH based detection systems. If more sensitive detection is required, schemes for the amplification of NTPs and dNTPS are provided. A detection system for cells or cellular material in a sample is provided wherein AMP and a high energy phosphate donor added to a sample are converted to ATP by the action of endogenous enzymes, followed by detection of the ATP.

59 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Terms	Documents
L3 and subunits	54

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☐ 21. Document ID: US 6335160 B1

Using default format because multiple data bases are involved.

L5: Entry 21 of 54 File: USPT Jan 1, 2002

US-PAT-NO: 6335160
DOCUMENT-IDENTIFIER: US 6335160 B1

TITLE: Methods and compositions for polypeptide engineering

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patten; Phillip A.	Mountain View	CA		
Stemmer; Willem P. C.	Los Gatos	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/440, 435/471, 435/69.1, 435/91.2, 536/23.1, 536/24.3, 536/24.33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 22. Document ID: US 6331621 B1

L5: Entry 22 of 54 File: USPT Dec 18, 2001

US-PAT-NO: 6331621
DOCUMENT-IDENTIFIER: US 6331621 B1

TITLE: Isolated nucleic acid molecules which encode activin-receptor like kinases, expression vectors and cells containing these

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyazono; Kohei	Uppsala			SE
ten Dijke; Peter	Uppsala			SE
Franzen; Petra	Uppsala			SE
Yamashita; Hidetoshi	Uppsala			SE
Heldin; Carl-Henrik	Uppsala			SE

US-CL-CURRENT: 536/23.2; 435/194, 435/252.1, 435/320.1, 435/325, 435/69.1, 530/350, 530/357

ABSTRACT:

The invention involves nucleic acid molecules which encode activin like kinases, expression vectors, and cell lines.

10 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 23. Document ID: US 6326469 B1

L5: Entry 23 of 54 File: USPT Dec 4, 2001

US-PAT-NO: 6326469
DOCUMENT-IDENTIFIER: US 6326469 B1

TITLE: Megakaryocytic protein tyrosine kinases

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ullrich; Axel	Portola Valley	CA		
Gishizky; Mikhail	Palo Alto	CA		
Sures; Irmingard	Munich			DE

US-CL-CURRENT: 530/350; 435/194, 435/69.1, 435/69.7

ABSTRACT:

The present invention relates to novel cytoplasmic tyrosine kinases isolated from megakaryocytes (megakaryocyte kinases or MKKs) which are involved in cellular signal transduction pathways and to the use of these novel proteins in the diagnosis and treatment of disease. The present invention further relates to specific megakaryocyte kinases, designated MKK1, MKK2 and MKK3, and their use as diagnostic and therapeutic agents.

11 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 26

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 24. Document ID: US 6312902 B1

L5: Entry 24 of 54 File: USPT Nov 6, 2001

US-PAT-NO: 6312902
DOCUMENT-IDENTIFIER: US 6312902 B1

TITLE: Nucleic acid detection

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John William	Verona	WI		
Lewis; Martin K.	Madison	WI		
Leippe; Donna	Middleton	WI		
Mandrekar; Michelle	Oregon	WI		
Kephart; Daniel	Cottage Grove	WI		
Rhodes; Richard Byron	Madison	WI		
Andrews; Christine Ann	Cottage Grove	WI		
Hartnett; James Robert	Madison	WI		
Gu; Trent	Madison	WI		
Olson; Ryan J.	Middleton	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/91.2, 435/91.5, 436/173, 436/501

ABSTRACT:

Processes are disclosed using the depolymerization of a nucleic acid hybrid to qualitatively and quantitatively analyze for the presence of a predetermined nucleic acid. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, speciation, determination of viral load, genotyping, medical marker diagnostics, and the like.

48 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 25. Document ID: US 6291164 B1

L5: Entry 25 of 54 File: USPT Sep 18, 2001

US-PAT-NO: 6291164
DOCUMENT-IDENTIFIER: US 6291164 B1

TITLE: Methods for preventing inhibition of nucleic acid synthesis by pyrophosphate

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blakesley; Robert W.	Frederick	MD		

US-CL-CURRENT: 435/6; 435/196

ABSTRACT:

Methods for preventing inhibition of nucleic acid synthesis by pyrophosphate are disclosed. More specifically, the present invention concerns inhibiting or preventing pyrophosphorolysis in sequencing and amplification of nucleic acid molecules. According to the present invention, an enzyme which is a pentosyltransferase, a phosphotransferase with an alcohol group as acceptor, a nucleotidyltransferase, or a carboxy-lyase is added to the reaction which serves to remove pyrophosphate from the reaction mixture.

51 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

☐ 26. Document ID: US 6291161 B1

L5: Entry 26 of 54 File: USPT Sep 18, 2001

US-PAT-NO: 6291161
DOCUMENT-IDENTIFIER: US 6291161 B1

TITLE: Method for tapping the immunological repertiore

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lerner; Richard A.	La Jolla	CA		
Sorge; Joseph A.	Wilson	WY		
Winter; Gregory P.	Cambridge			GB
Riechmann; Lutz	Cambridge			GB

US-CL-CURRENT: 435/6; 435/235.1, 435/252.33, 435/320.1, 435/489, 435/69.6

ABSTRACT:

The present invention relates to a method for isolating from the immunological gene repertoire a gene coding for a receptor having the ability to bind a preselected ligand. Receptors produced by the gene isolated by the method, particularly catalytic receptors, are also contemplated.

58 Claims, 34 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 27

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D.

☐ 27. Document ID: US 6291158 B1

L5: Entry 27 of 54 File: USPT Sep 18, 2001

US-PAT-NO: 6291158
DOCUMENT-IDENTIFIER: US 6291158 B1

TITLE: Method for tapping the immunological repertoire

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Winter; Gregory P.	Cambridge			GB
Riechmann; Lutz	Cambridge			GB
Huse; William D.	Del Mar	CA		
Sorge; Joseph A.	Wilson	NY		
Lerner; Richard A.	La Jolla	CA		

US-CL-CURRENT: 435/6; 435/235.1, 435/252.33, 435/320.1, 435/489, 435/69.6

ABSTRACT:

The present invention relates to a method for isolating from the immunological gene repertoire a gene coding for a receptor having the ability to bind a preselected ligand. Receptors produced by the gene isolated by the method, particularly catalytic receptors, are also contemplated.

58 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 23

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D.

☐ 28. Document ID: US 6271004 B1

L5: Entry 28 of 54 File: USPT Aug 7, 2001

US-PAT-NO: 6271004
DOCUMENT-IDENTIFIER: US 6271004 B1
**** See image for Certificate of Correction ****

TITLE: Method for improved reverse transcription at high temperatures

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Warthoe; Peter	Copenhagen			DK

US-CL-CURRENT: 435/91.51; 435/6, 435/91.1, 435/91.2, 435/91.5

ABSTRACT:

The invention relates to a method for enzyme stabilization. A method for improved reverse transcription at high temperatures is provided, wherein a thermostable heat shock protein (HSPs) stabilizes a reverse transcriptase, as well as reduces the RNase H activity of said reverse transcriptase. The present invention thus relates to a stabilizing agent, that prevents thermal denaturing and enhances thermostability of a reverse transcriptase. The invention further relates to a method of producing a polypeptide complex consisting of a Chaperonin and a Moloney murine leukemia virus (MMVL) reverse transcriptase, characterized by having enhanced thermostability as well as reduced RNase H activity, compared to a (MMVL) reverse transcriptase alone. The invention further relates to a kit for the preparation of cDNA from mRNA, comprising either both stabilizing agent and reverse transcriptase or the polypeptide complex of the invention.

39 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

☐ 29. Document ID: US 6270974 B1

L5: Entry 29 of 54 File: USPT Aug 7, 2001

US-PAT-NO: 6270974
DOCUMENT-IDENTIFIER: US 6270974 B1

TITLE: Exogenous nucleic acid detection

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John William	Verona	WI		
Lewis; Martin K.	Madison	WI		
Leippe; Donna	Middleton	WI		
Mandrekar; Michelle	Oregon	WI		
Kephart; Daniel	Cottage Grove	WI		
Rhodes; Richard Byron	Madison	WI		
Andrews; Christine Ann	Cottage Grove	WI		
Hartnett; James Robert	Madison	WI		
Gu; Trent	Madison	WI		
Olson; Ryan J.	Middleton	WI		
Wood; Keith V.	Madison	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/91.2, 435/91.5, 436/173, 436/501

ABSTRACT:

Processes are disclosed using the depolymerization of a nucleic acid hybrid to qualitatively and quantitatively analyze for the presence of a predetermined exogenous nucleic acid. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, determination of viral load, genotyping, medical marker diagnostics, and the like.

51 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 30. Document ID: US 6270973 B1

L5: Entry 30 of 54 File: USPT Aug 7, 2001

US-PAT-NO: 6270973
DOCUMENT-IDENTIFIER: US 6270973 B1

TITLE: Multiplex method for nucleic acid detection

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lewis; Martin K.	Madison	WI		
Kephart; Daniel	Cottage Grove	WI		
Rhodes; Richard Byron	Madison	WI		
Shultz; John William	Verona	WI		
Leippe; Donna	Middleton	WI		
Mandrekar; Michelle	Oregon	WI		
Andrews; Christine Ann	Cottage Grove	WI		
Hartnett; James Robert	Madison	WI		
Gu; Trent	Madison	WI		
Wood; Keith V.	Madison	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/91.2, 435/91.5, 436/173, 436/501

ABSTRACT:

Processes are disclosed using the depolymerization of a nucleic acid hybrid to qualitatively and quantitatively analyze for the presence of predetermined nucleic acid target sequences using a multiplex assay format. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, speciation, genotyping, medical marker diagnostics, and the like.

74 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw D

☐ 31. Document ID: US 6268146 B1

L5: Entry 31 of 54 File: USPT Jul 31, 2001

US-PAT-NO: 6268146
DOCUMENT-IDENTIFIER: US 6268146 B1

TITLE: Analytical methods and materials for nucleic acid detection

DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John William	Verona	WI		
Lewis; Martin K.	Madison	WI		
Mandrekar; Michelle	Oregon	WI		
Leippe; Donna	Middleton	WI		
Smith, Jr.; Roderick R.	Fitchburg	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/91.2, 435/91.5, 436/173, 436/501, 536/24.31, 536/24.32

ABSTRACT:

Mass spectrometric, absorbance spectroscopic and fluorescence spectroscopic processes are disclosed to detect the depolymerization of a nucleic acid hybrid in order to qualitatively and quantitatively assay for the presence of a predetermined nucleic acid target. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, speciation, determination of viral load, genotyping, medical marker diagnostics, and the like, including multiplexed assays.

36 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw D

☐ 32. Document ID: US 6235480 B1

L5: Entry 32 of 54 File: USPT May 22, 2001

US-PAT-NO: 6235480
DOCUMENT-IDENTIFIER: US 6235480 B1

TITLE: Detection of nucleic acid hybrids

DATE-ISSUED: May 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shultz; John William	Verona	WI		
Lewis; Martin K.	Madison	WI		
Leippe; Donna	Madison	WI		
Mandrekar; Michelle	Oregon	WI		
Kephart; Daniel	Cottage Grove	WI		
Rhodes; Richard Byron	Madison	WI		
Andrews; Christine Ann	Cottage Grove	WI		
Hartnett; James Robert	Madison	WI		
Gu; Trent	Madison	WI		
Olson; Ryan J.	Madison	WI		
Wood; Keith V.	Madison	WI		
Welch; Roy	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/91.2, 435/91.5, 436/173, 436/501

ABSTRACT:

Processes are disclosed using the depolymerization of a nucleic acid hybrid to qualitatively and quantitatively analyze for the presence of a predetermined nucleic acid. Applications of those processes include the detection of single nucleotide polymorphisms, identification of single base changes, speciation, determination of viral load, genotyping, medical marker diagnostics, and the like.

170 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 33. Document ID: US 6207814 B1

L5: Entry 33 of 54 File: USPT Mar 27, 2001

US-PAT-NO: 6207814
DOCUMENT-IDENTIFIER: US 6207814 B1
**** See image for Certificate of Correction ****

TITLE: Activin receptor-like kinases, ALK-3 and ALK-6, and nucleic acids encoding them

DATE-ISSUED: March 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Miyazono; Kohei	Uppsala	SE
ten Dijke; Peter	Uppsala	SE
Franzen; Petra	Uppsala	SE
Yamashita; Hidetoshi	Uppsala	SE
Heldin; Carl-Henrik	Uppsala	SE

US-CL-CURRENT: 536/23.5; 435/194, 530/350

ABSTRACT:

The invention relates to two members of the receptor family referred to as activin-like kinases. These two members are referred to as ALK-3 and ALK-6. The proteins have activin/TGF-.beta. type I receptor functionality, and may have a serine/threonine kinase domain, a DFKSRN or DLKSKN sequence in subdomain V1B, and/or a GTKRYM sequence in subdomain VIII.

5 Claims, 14 Drawing figures
Exemplary Claim Number: 1,3
Number of Drawing Sheets: 10

☐ 34. Document ID: US 6162641 A

L5: Entry 34 of 54 File: USPT Dec 19, 2000

US-PAT-NO: 6162641
DOCUMENT-IDENTIFIER: US 6162641 A

TITLE: Neuregulin response element and uses therefor

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goldman; Daniel	Ann Arbor	MI		
Sapru; Mohan K.	Naperville	IL		

US-CL-CURRENT: 435/325; 435/320.1, 435/348, 435/349, 435/352, 435/363, 435/368, 435/371, 536/23.1, 536/24.1

ABSTRACT:

Methods for therapeutics and for screens are provided using a 15 bp sequence in the rat .epsilon.-subunit promoter that regulates PTPase, neuregulin and Ras-dependent gene expression. As this 15 bp sequence is necessary also for low .epsilon.-subunit gene expression in extrajunctional regions of the muscle fiber, the screens can identify agents that simultaneously and oppositely modulate expression in .epsilon.-subunit expression of synaptic and extrajunctional regions.

8 Claims, 8 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 35. Document ID: US 6096545 A

L5: Entry 35 of 54 File: USPT Aug 1, 2000

US-PAT-NO: 6096545
DOCUMENT-IDENTIFIER: US 6096545 A
**** See image for Certificate of Correction ****

TITLE: Phosphate starvation-inducible proteins

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lefebvre; Daniel D.	Kingston			CA
Malboobi; Mohammed A.	Kingston			CA

US-CL-CURRENT: 435/410; 435/194, 435/252.33, 435/320.1, 536/23.1, 536/23.2, 536/23.6

ABSTRACT:

This invention provides proteins, especially protein kinases and glucosidases, which are expressed under conditions of phosphate deprivation. Further provided are nucleic acids and nucleic acid constructs encoding these proteins, cells containing the nucleic acids described and transgenic photosynthetic organisms with altered phosphate-inducible enzyme activity.

25 Claims, 33 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 28

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 36. Document ID: US 6063608 A

L5: Entry 36 of 54 File: USPT May 16, 2000

US-PAT-NO: 6063608
DOCUMENT-IDENTIFIER: US 6063608 A
**** See image for Certificate of Correction ****

TITLE: Cloned genes encoding reverse transcriptase lacking RNase H activity

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kotewicz; Michael Leslie	Columbia	MD		
Gerard; Gary Floyd	Frederick	MD		

US-CL-CURRENT: 435/194; 435/252.3, 435/252.33, 435/320.1, 435/475, 435/69.1, 435/91.1, 435/91.2, 435/975, 536/23.2

ABSTRACT:

The invention relates to a gene which encodes reverse transcriptase having DNA polymerase activity and substantially no RNase H activity. The invention also relates to vectors containing the gene and hosts transformed with the vectors of the invention. The invention also relates to a method of producing reverse transcriptase having DNA polymerase activity and substantially no RNase H activity by expressing the reverse transcriptase genes of the present invention in a host. The invention also relates to a method of producing cDNA from mRNA using the reverse transcriptase of the invention. The invention also relates to a kit for the preparation of cDNA from mRNA comprising the reverse transcriptase of the invention.

196 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 37. Document ID: US 5902723 A

L5: Entry 37 of 54 File: USPT May 11, 1999

US-PAT-NO: 5902723
DOCUMENT-IDENTIFIER: US 5902723 A

TITLE: Analysis of surface immobilized polymers utilizing microfluorescence detection

DATE-ISSUED: May 11, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dower; William J.	Menlo Park	CA	94025	
Fodor; Stephen P. A.	Palo Alto	CA	94303	

US-CL-CURRENT: 435/6; 435/188.5, 536/23.1, 536/24.3

ABSTRACT:

Means for simultaneous parallel sequence analysis of a large number of biological polymer macromolecules. Apparatus and methods may use fluorescent labels in repetitive chemistry to determine terminal monomers on solid phase immobilized polymers. Reagents which specifically recognize terminal manomers are used to label polymers at defined positions on a solid substrate.

15 Claims, 19 Drawing figures
Exemplary Claim Number: 1,7
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 38. Document ID: US 5858731 A

L5: Entry 38 of 54 File: USPT Jan 12, 1999

US-PAT-NO: 5858731
DOCUMENT-IDENTIFIER: US 5858731 A

TITLE: Oligonucleotide libraries useful for producing primers

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sorge; Joseph A.	San Diego	CA		
Shoemaker; Daniel Davis	Stanford	CA		

US-CL-CURRENT: 435/91.1; 536/24.3, 536/24.33, 536/25.3

ABSTRACT:

An oligonucleotide library is described that is1 useful for producing an oligonucleotide of preselected sequence comprising a plurality of oligonucleotide members comprising one or more oligonucleotide species and having the compositional formula (X).sub.a (N).sub.b ; wherein X represents a non-degenerate nucleotide base and N represents a degenerate nucleotide base; "a" represents the number of non-degenerate nucleotide positions and is from 3 to 8; "b" represents the number of degenerate nucleotide positions and is from 0 to 4 but not greater that "a"; and wherein each of the oligonucleotide species is capable of forming a hybridization complex with at least one other of the oligonucleotide species in the library such that a single ligation event of the hybridization complex with another hybridization complex derived from the library produces a ligation reaction product comprising greater than 12 contiguous nucleotide base pairs.

20 Claims, 7 Drawing figures
Exemplary Claim Number: 14
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 39. Document ID: US 5834310 A

L5: Entry 39 of 54 File: USPT Nov 10, 1998

US-PAT-NO: 5834310
DOCUMENT-IDENTIFIER: US 5834310 A

TITLE: Mammalian muscle NAD: arginine ADP-ribosyltransferase

DATE-ISSUED: November 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moss; Joel	Bethesda	MD		
Okazaki; Ian	Rockville	MD		
Zolkiewska; Anna	Rockville	MD		
Nightingale; Maria S.	Bethesda	MD		

US-CL-CURRENT: 435/325; 435/193, 435/194, 435/252.3, 435/252.33, 435/320.1, 435/350, 435/351, 435/352, 435/353, 435/354 , 536/23.1, 536/23.2, 536/23.5

ABSTRACT:

This invention relates to the identification and molecular characterization of NAD:arginine ADP-ribosyltransferases. Sequences from the rabbit skeletal muscle NAD:arginine ADP-ribosyltransferase and the human NAD:arginine ADP-ribosyltransferase are provided herein. Recombinant protein is expressed from a recombinant gene vector containing at least 15 continuous bases of genes encoding these sequences.

6 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

☐ 40. Document ID: US 5763573 A

L5: Entry 40 of 54 File: USPT Jun 9, 1998

US-PAT-NO: 5763573
DOCUMENT-IDENTIFIER: US 5763573 A

TITLE: GTPase activating protein fragments

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McCormick; Francis P.	Berkeley	CA		
Wong; Gail L.	Oakland	CA		
Polakis; Paul G.	San Francisco	CA		
Rubinfeld; Bonnee	Danville	CA		

US-CL-CURRENT: 530/326; 530/350

ABSTRACT:

Peptides, that inhibit GAP stimulated ras p21 hydrolysis of GTP; peptides that mediate dissociation of GDP from ras p21-GTP complex; and antibodies to the peptides are described. These peptides are useful as cancer diagnostics and therapeutics, particularly to detect cancer cells with an over expression of normal or oncogenic ras p21 protein and to treat cancer caused by ras oncogene. Methods for assaying products of oncogenes using the described peptides and antibodies are also disclosed. Method for treating cancer caused by ras oncogenes is also disclosed.

17 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 20

Terms	Documents
L3 and subunits	54

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☐ 41. Document ID: US 5760203 A

Using default format because multiple data bases are involved.

L5: Entry 41 of 54 File: USPT Jun 2, 1998

US-PAT-NO: 5760203
DOCUMENT-IDENTIFIER: US 5760203 A

TITLE: Gap gene sequences

DATE-ISSUED: June 2, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Gail L.	Oakland	CA		
Martin; George	Berkeley	CA		
McCormick; Francis P.	Albany	CA		
Rubinfeld; Bonnee	Danville	CA		
O'Rourke; Edward C.	Oakland	CA		
Clark; Robin	Oakland	CA		

US-CL-CURRENT: 536/23.1; 435/252.33, 435/348, 435/6, 435/69.1, 536/24.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 42. Document ID: US 5639608 A

L5: Entry 42 of 54 File: USPT Jun 17, 1997

US-PAT-NO: 5639608
DOCUMENT-IDENTIFIER: US 5639608 A

TITLE: Method for sequencing DNA using a T7-type DNA polymerase and short oligonucleotide primers

DATE-ISSUED: June 17, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles C.	Chestnut Hill	MA		

US-CL-CURRENT: 435/6; 435/91.2

ABSTRACT:

This invention relates to methods for determining the nucleotide base sequence of a deoxyribose nucleic acid molecule comprising the steps of incubating the nucleic acid molecule with an oligonucleotide primer of 5 to 8 bases in length, a plurality of deoxynucleoside triphosphates, at least one chain terminating agent, and a T7-type DNA polymerase having less than 500 units of exonuclease activity under conditions in which the primer is extended until the chain terminating agent is incorporated, and separating the products of the incubating step according to size, whereby at least a part of the nucleotide base sequence of the nucleic acid molecule can be determined.

8 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 20

☐ 43. Document ID: US 5614365 A

L5: Entry 43 of 54 File: USPT Mar 25, 1997

US-PAT-NO: 5614365
DOCUMENT-IDENTIFIER: US 5614365 A

TITLE: DNA polymerase having modified nucleotide binding site for DNA sequencing

DATE-ISSUED: March 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles	Chestnut Hill	MA		

US-CL-CURRENT: 435/6; 435/194, 435/195, 435/488, 435/69.1, 435/91.1, 435/91.2, 530/350, 536/23.1, 536/23.2

ABSTRACT:

Modified gene encoding a modified DNA polymerase wherein the modified polymerase incorporates dideoxynucleotides at least 20-fold better compared to the corresponding deoxynucleotides as compared with the corresponding naturally-occurring DNA polymerase.

108 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

☐ 44. Document ID: US 5589375 A

L5: Entry 44 of 54 File: USPT Dec 31, 1996

US-PAT-NO: 5589375
DOCUMENT-IDENTIFIER: US 5589375 A

TITLE: PTP 1D: a novel protein tyrosine phosphatase

DATE-ISSUED: December 31, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ullrich; Axel	Martinsried bei Muchen			DE
Vogel; Wolfgang	Germering			DE

US-CL-CURRENT: 435/325; 435/195, 435/252.3, 435/252.33, 435/320.1, 435/357, 435/358, 435/365, 435/369, 435/64, 536/23.1 , 536/23.2

ABSTRACT:

A novel protein tyrosine phosphatase is the protein designated PTP 1D. The PTP 1D protein may be produced by recombinant means, for example using a nucleic acid construct encoding the protein as provided herein. Also disclosed is an antibody specific for an epitope of PTP 1D, protein. Methods for identifying compounds which bind to a PTP 1D protein and inhibit or stimulate its enzymatic activity, pharmaceutical compositions comprising PTP 1D, and methods for treating a disease associated with PTP 1D protein using such compositions, are provided.

10 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 45. Document ID: US 5547839 A

L5: Entry 45 of 54 File: USPT Aug 20, 1996

US-PAT-NO: 5547839
DOCUMENT-IDENTIFIER: US 5547839 A

TITLE: Sequencing of surface immobilized polymers utilizing microflourescence detection

DATE-ISSUED: August 20, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dower; William J.	Menlo Park	CA		
Fodor; Stephen P. A.	Palo Alto	CA		

US-CL-CURRENT: 435/6; 536/24.3, 536/24.33

ABSTRACT:

Means for simultaneous parallel sequence analysis of a large number of biological polymer macromolecules. Apparatus and methods may use fluorescent labels in repetitive chemistry to determine terminal monomers on solid phase immobilized polymers. Reagents which specifically recognize terminal monomers are used to label polymers at defined positions on a solid substrate.

7 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

☐ 46. Document ID: US 5436141 A

L5: Entry 46 of 54 File: USPT Jul 25, 1995

US-PAT-NO: 5436141
DOCUMENT-IDENTIFIER: US 5436141 A
**** See image for Certificate of Correction ****

TITLE: Method for synthesizing stable single-stranded CDNA in eukaryotes by means of a bacterial retron and products

DATE-ISSUED: July 25, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyata; Shohei	Misato			JP
Ohshima; Atsushi	Highland Park	NJ		
Inouye; Sumiko	Bridgewater	NJ		
Inouye; Masayori	Bridgewater	NJ		

US-CL-CURRENT: 435/91.1; 435/254.2, 435/254.21, 435/320.1, 435/348, 435/358, 435/367, 536/25.2

ABSTRACT:

A method for producing in vivo stable single-stranded DNAs in eucaryotic cells. The DNAs are multicopy single-stranded DNA (msDNA) structures constituted by a RNA and a DNA portion. The group of genes (retrons) producing said coupled RNA and DNA portions of the msDNAs and the gene encoding reverse transcriptase (RT). The transformed eucaryotes harboring these retrons. The new msDNAs which are encoded by the new retrons. The msDNAs can be used as vectors for antisense DNA and for amplification of inserted genes.

45 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 47. Document ID: US 5266466 A

L5: Entry 47 of 54 File: USPT Nov 30, 1993

US-PAT-NO: 5266466
DOCUMENT-IDENTIFIER: US 5266466 A
** See image for Certificate of Correction **

TITLE: Method of using T7 DNA polymerase to label the 3' end of a DNA molecule

DATE-ISSUED: November 30, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles C.	Chestnut Hill	MA		

US-CL-CURRENT: 435/91.5; 435/194, 435/6

ABSTRACT:

This invention relates to T7-type DNA polymerases and methods for using them.

1 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 48. Document ID: US 5243039 A

L5: Entry 48 of 54 File: USPT Sep 7, 1993

US-PAT-NO: 5243039
DOCUMENT-IDENTIFIER: US 5243039 A

TITLE: Bacillus MGA3 aspartokinase II gene

DATE-ISSUED: September 7, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schendel; Frederick J.	Oakdale	MN		
Flickinger; Michael C.	St. Paul	MN		

US-CL-CURRENT: 536/23.2; 435/193, 435/194, 435/252.3

ABSTRACT:

The present invention provides the isolated DNA sequence encoding the .alpha.B dimer subunit of the lysine-sensitive aspartokinase II isozyme from the thermophilic methylotrophic Bacillus sp. MGA3.

2 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 49. Document ID: US 5145776 A

L5: Entry 49 of 54 File: USPT Sep 8, 1992

US-PAT-NO: 5145776
DOCUMENT-IDENTIFIER: US 5145776 A

TITLE: Method of using T7 DNA polymerase to mutagenize and fill-in DNA

DATE-ISSUED: September 8, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles C.	Chestnut Hill	MA		

US-CL-CURRENT: 435/91.5; 435/194, 435/6

ABSTRACT:

Methods for producing blunt-ended double stranded DNA, for labelling the 3'-end of a DNA fragment, and for in vitro mutagenesis of a DNA fragment. A processive DNA polymerase is used in each method.

9 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 50. Document ID: US 4994372 A

L5: Entry 50 of 54 File: USPT Feb 19, 1991

US-PAT-NO: 4994372
DOCUMENT-IDENTIFIER: US 4994372 A
** See image for Certificate of Correction **

TITLE: DNA sequencing

DATE-ISSUED: February 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles C.	Chestnut Hill	MA		

US-CL-CURRENT: 435/6; 435/803, 435/91.2, 435/91.5, 435/91.51, 436/501

ABSTRACT:

This invention relates to processive DNA polymerases and methods for using them.

44 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. D

☐ 51. Document ID: US 4946786 A

L5: Entry 51 of 54 File: USPT Aug 7, 1990

US-PAT-NO: 4946786
DOCUMENT-IDENTIFIER: US 4946786 A
**** See image for Certificate of Correction ****

TITLE: T7 DNA polymerase

DATE-ISSUED: August 7, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles C.	Chestnut Hill	MA		

US-CL-CURRENT: 435/194; 435/252.33, 435/320.1

ABSTRACT:

1Method for production of a composition consisting essentially of a T7-type DNA polymerase and thioredoxin. The method includes culturing a cell containing plasmid DNA encoding a T7-type DNA polymerase to express the T7-type DNA polymerase from the plasmid DNA, and purifying the T7-type DNA polymerase expressed from the cell to reduce the exonuclease activity associated with the T7-type DNA polymerase compared to the level of exonuclease activity associated with a corresponding naturally-occurring T7-type DNA polymerase.

18 Claims, 22 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 19

☐ 52. Document ID: US 4943531 A

L5: Entry 52 of 54 File: USPT Jul 24, 1990

US-PAT-NO: 4943531
DOCUMENT-IDENTIFIER: US 4943531 A

TITLE: Expression of enzymatically active reverse transcriptase

DATE-ISSUED: July 24, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goff; Stephen P.	Tenafly	NJ		
Tanese; Naoko	New York	NY		
Roth; Monica J.	Bronx	NY		

US-CL-CURRENT: 435/194; 435/252.33, 435/320.1

ABSTRACT:

This invention provides a plasmic which, when introduced into a suitable host cell and grown under appropriate conditions, effects expression of a gene on the plasmid and production of a polypeptide having reverse transcriptase activity. The plasmid is a double-stranded DNA molecule which includes in a 5' to 3' order the following: a DNA sequence which includes an inducible promoter; a DNA sequence which includes an ATG initiation condon; the central portion of the Moloney murine leukemia virus (MuLV) pol gene, said central portion including a DNA sequence which encodes the polypeptide having reverse transcriptase activity; a DNA sequence which contains a gene associated with a selectable or identifiable phenotypic trait which is manifested when the vector is present in the host cell; and a DNA sequence which contains an origin of replication from a bacterial plasmid capable of autonomous replication in the host cell.

The invention also concerns a method for recovering purified enzymatically-active polypeptide having reverse transcriptase activity, the polypeptide being encoded by the plasmid pB6 B15.23, from a suitable host cell e.g., E. coli HB101 producing the polypeptide. Finally, the invention concerns use of the polypeptide to prepare complementary DNA (cDNA).

3 Claims, 5 Drawing figures
Exemplary Claim Number: 3
Number of Drawing Sheets: 5

☐ 53. Document ID: US 4942130 A

L5: Entry 53 of 54 File: USPT Jul 17, 1990

US-PAT-NO: 4942130
DOCUMENT-IDENTIFIER: US 4942130 A
** See image for Certificate of Correction **

TITLE: T7 DNA polymerase

DATE-ISSUED: July 17, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles C.	Chestnut Hill	MA		

US-CL-CURRENT: 435/194; 435/849, 536/23.2

27 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 54. Document ID: US 4921794 A

L5: Entry 54 of 54 File: USPT May 1, 1990

US-PAT-NO: 4921794
DOCUMENT-IDENTIFIER: US 4921794 A

TITLE: T7 DNA polymerase

DATE-ISSUED: May 1, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabor; Stanley	Cambridge	MA		
Richardson; Charles C.	Chestnut Hill	MA		

US-CL-CURRENT: 435/91.2; 435/194, 435/320.1, 536/23.1, 536/24.33

ABSTRACT:

This invention relates to T7-type DNA polymerases and methods for amplification of DNA, for example by polymerase chain reaction.

24 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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